

**WHAT IS CLAIMED IS:**

1. A rotary engine, comprising:

a spherical combustion chamber having an internal groove;

5 a rotor extending into the spherical combustion chamber;

a first baffle having a ridge in engagement with the internal groove; and

a second baffle supported by the rotor.

2. A rotary engine according to Claim 1, wherein the second baffle has a circular

10 face, and the first baffle has a semicircular face.

3. A rotary engine according to Claim 1, wherein the second baffle has a circular

face and a longitudinal groove therein, and the first baffle has one edge in engagement with the

longitudinal groove in the second baffle, whereby the first baffle prevents rotation of the

15 second baffle about an axis of the rotor.

4. A rotary engine according to Claim 1, wherein the second baffle has a circular

face, and the first baffle has a semicircular face; and wherein the rotor comprises a rod and a

slanted annular face in sliding engagement with the second baffle;

whereby the second baffle oscillates during rotation of the rotor.

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5. A rotary engine according to Claim 1, wherein the second baffle has a circular

face and a longitudinal groove therein, and the first baffle has one edge in

engagement with the longitudinal groove in the second baffle, whereby the first baffle oscillates in a side to side movement along the groove in the spherical combustion chamber during rotation of the rotor.

5           6.     A rotary engine, comprising:

a spherical combustion chamber;

a rotor extending into the combustion chamber;

a first baffle;

a second baffle;

10           guiding means for guiding the first baffle in an oscillatory motion with the combustion chamber;

connecting means for connecting the second baffle to the rotor such that rotation of the rotor causes oscillatory movement of the second baffle.

15           7.     A rotary engine according to Claim 6, wherein the second baffle has a circular face, and the first baffle has a semicircular face.

8.     A rotary engine according to Claim 6, wherein the second baffle has a circular face and a longitudinal groove therein, and the first baffle has one edge in engagement with the  
20 longitudinal groove in the second baffle, whereby the first baffle prevents rotation of the second baffle about an axis of the rotor.

9. A rotary engine according to Claim 6, further comprising a cam sleeve operated by rotation of the rotor.

10. A rotary engine according to Claim 6, further comprising lifting rods mounted  
5 on an external surface of the spherical combustion chamber.

11. A rotary engine according to Claim 6, further comprising a cam sleeve operated by rotation of the rotor, and lifting rods mounted on an external surface of the spherical combustion chamber.